## INTERNATIONAL SEARCH REPORT

International application No.

## PCT/AU2004/001020

Α.	CLASSIFICATION OF SUBJECT MATTER	₹								
Int. Cl. 7:	H04R 17/00; G01S 15/00									
According to	international Patent Classification (IPC) or to	both r	national classification and IPC							
В.	FIELDS SEARCHED									
Minimum docu	mentation searched (classification system followed	by cla	ssification symbols)							
Documentation	searched other than minimum documentation to th	e exte	nt that such documents are included in the fields search	ned						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, USPTO, ESP@CENET - keywords (sonar, sonic, curve, shape, contour, antenna, parabolic, elliptic and the like)										
C.	DOCUMENTS CONSIDERED TO BE RELEVAL	NT								
Category*	Citation of document, with indication, where appropriate, of the relevant passages									
х	US 5373483 A (BURKE) 13 December See abstract, column 5 lines 11-45	1994		1-13						
A	US 5345428 A (ARNOLD et al.) 6 Sept See entire document	tembe	er 1994							
A	US 6400649 B2 (SKINNER et al.) 4 Jun See abstract & Figs. 1-4	ne 20	02							
F	urther documents are listed in the continu	ation	of Box C X See patent family anne	ex						
"A" documen not consi	pecial categories of cited documents:  comment defining the general state of the art which is ot considered to be of particular relevance  arlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken									
or which another o	t which may throw doubts on priority claim(s) is cited to establish the publication date of itation or other special reason (as specified)	inv	one cument of particular relevance; the claimed invention cannot rolve an inventive step when the document is combined with the documents, such combination being obvious to a person sl	one or more other						
or other i	t referring to an oral disclosure, use, exhibition neans t published prior to the international filing date	' do	cument member of the same patent family							
but later	than the priority date claimed		Transfer State Committee of the Committe							
16 Septembe	al completion of the international search r 2004		Date of mailing of the international search report	2 SEP 2004						
	lame and mailing address of the ISA/AU Authorized officer									
PO BOX 200, V	PATENT OFFICE VODEN ACT 2606, AUSTRALIA pct@ipaustralia.gov.au 02) 6285 3929		Robert Finzi Telephone No : (02) 6283 2213							

## INTERNATIONAL SEARCH REPORT Information on patent family members

International application No.

PCT/AU2004/001020

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						
US	5373483	US	5237542	US	5327397			
US	5345428	AU	50650/90	AU	71637/87	AU	71639/87	
		EP	0297100	EP	0297101	GB	2209645	
	•	GB	2211693	US	5016228	US	5029148	
		WO	1987/005772	wo	1987/005773			
US	6400649	CA	2298394	EP	1039444	US	6278658	
		US	2001022757					

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX